```
PPPPPPPPPPPP     LLL                 IIIIIIIII     RRRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
PPPPPPPPPPPP     LLL                 IIIIIIIII     RRRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
PPPPPPPPPPPP     LLL                 IIIIIIIII     RRRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
PPP         PPP  LLL                     III       RRR         RRR        TTT        LLL
PPP         PPP  LLL                     III       RRR         RRR        TTT        LLL
PPP         PPP  LLL                     III       RRR         RRR        TTT        LLL
PPP         PPP  LLL                     III       RRR         RRR        TTT        LLL
PPP         PPP  LLL                     III       RRR         RRR        TTT        LLL
PPP         PPP  LLL                     III       RRR         RRR        TTT        LLL
PPPPPPPPPPPP     LLL                     III       RRRRRRRRRRRR           TTT        LLL
PPPPPPPPPPPP     LLL                     III       RRRRRRRRRRRR           TTT        LLL
PPPPPPPPPPPP     LLL                     III       RRRRRRRRRRRR           TTT        LLL
PPP              LLL                     III       RRR   RRR              TTT        LLL
PPP              LLL                     III       RRR   RRR              TTT        LLL
PPP              LLL                     III       RRR   RRR              TTT        LLL
PPP              LLL                     III       RRR      RRR           TTT        LLL
PPP              LLL                     III       RRR      RRR           TTT        LLL
PPP              LLL                     III       RRR      RRR           TTT        LLL
PPP              LLLLLLLLLLLLLLL     IIIIIIIII     RRR         RRR        TTT        LLLLLLLLLLLLLLL
PPP              LLLLLLLLLLLLLLL     IIIIIIIII     RRR         RRR        TTT        LLLLLLLLLLLLLLL
PPP              LLLLLLLLLLLLLLL     IIIIIIIII     RRR         RRR        TTT        LLLLLLLLLLLLLLL
```

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_$2

Sym
---
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                                                                N 4
**FILE**ID**PLIGETFIL










          PPPPPPPP    LL            IIIIII      GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  FFFFFFFFFF    IIIIII    LL
          PPPPPPPP    LL            IIIIII      GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  FFFFFFFFFF    IIIIII    LL
          PP      PP  LL              II      GG          EE              TT      FF              II      LL
          PP      PP  LL              II      GG          EE              TT      FF              II      LL
          PP      PP  LL              II      GG          EE              TT      FF              II      LL
          PP      PP  LL              II      GG          EE              TT      FF              II      LL
          PPPPPPPP    LL              II      GG          EEEEEEEE        TT      FFFFFFFF        II      LL
          PPPPPPPP    LL              II      GG          EEEEEEEE        TT      FFFFFFFF        II      LL
          PP          LL              II      GG  GGGGGG  EE              TT      FF              II      LL
          PP          LL              II      GG  GGGGGG  EE              TT      FF              II      LL
          PP          LL              II      GG      GG  EE              TT      FF              II      LL              ....
          PP          LL              II      GG      GG  EE              TT      FF              II      LL              ....
          PP          LLLLLLLLLL    IIIIII      GGGGGG    EEEEEEEEEE      TT      FF            IIIIII    LLLLLLLLLL      ....
          PP          LLLLLLLLLL    IIIIII      GGGGGG    EEEEEEEEEE      TT      FF            IIIIII    LLLLLLLLLL      ....

          LL            IIIIII      SSSSSSSS
          LL            IIIIII      SSSSSSSS
          LL              II      SS
          LL              II      SS
          LL              II      SS
          LL              II      SS
          LL              II        SSSSSS
          LL              II        SSSSSS
          LL              II              SS
          LL              II              SS
          LL              II              SS
          LL              II              SS
          LLLLLLLLLL    IIIIII    SSSSSSSS
          LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
0000            .title  pli$getfile - pl1 runtime get file
0000            .ident  /1-003/                                     ; Edit CGN1003
0000                                                                ; Edit WHM1002
0000
0000    ;
0000    ;****************************************************************************
0000    ;*                                                                          *
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0000    ;*                                                                          *
0000    ;*                                                                          *
0000    ;****************************************************************************
0000    ;
0000
0000
0000    ;++
0000    ; facility:
0000    ;
0000    ;       VAX/VMS PL1 runtime library.
0000    ;
0000    ; abstract:
0000    ;
0000    ;       This module contains the pl1 runtime routine for initializing
0000    ;       the runtime system to perform a get from a pl1 stream file.
0000    ;
0000    ; author: c. spitz 4-oct-79
0000    ;
0000    ; modified:
0000    ;
0000    ;
0000    ;       1-002   Bill Matthews   29-September-1982
0000    ;
0000    ;               Invoke macros $defdat and rtshare instead of $defopr and share.
0000    ;
0000    ;       1-003   Chip Nylander   08-August-1983
0000    ;
0000    ;               Initialize the parent pointer with FP when stream block
0000    ;               allocated.
0000    ;
0000    ;--
0000
0000    ;
```

```
         0000     58 ; external definitions
         0000     59 ;
         0000     60         $deffcb                         ;define file control block
         0000     61         $defstk                         ;define stack frame offsets
         0000     62         $defstr                         ;define stream block offsets
         0000     63         $defdat                         ;define operand node data types
         0000     64         $rabdef                         ;define rms rab offsets
         0000     65         $fabdef                         ;define rms fab offsets
         0000     66         $rmsdef                         ;define rms error codes
         0000     67
         0000     68 ;
         0000     69 ; local definitions
         0000     70 ;
         0000     71
         0000     72         rtshare                         ;sharable
```

```
                           0000  ;++
                           0000  ; pli$getfile_r6 -- get elements from a stream file
                           0000  ;
                           0000  ; functional description:
                           0000  ;
                           0000  ; This routine initializes the runtime system to perform a GET statement.
                           0000  ; the get statement is compiled into code that sets up the parameters to
                           0000  ; this routine, and then jsb's to it. this routine opens the file if necessary,
                           0000  ; allocates a buffer for the file, allocates and initializes a stream block for
                           0000  ; the GET statement, processes any options specified in the GET statement and
                           0000  ; returns to the inline code.
                           0000  ; following the jsb in the inline code, the compiler has generated code
                           0000  ; that stores the address and size of the next element in r0 and r1. the
                           0000  ; inline code then jsb's to the routine in the pli$getedit or pli$getlist
                           0000  ; modules that processes elements of that data type.
                           0000  ;
                           0000  ; inputs:
                           0000  ;       ap - address of file control block
                           0000  ;       (sp) - address of first element inline code
                           0000  ;       r0 - address of skip option (number of skips)
                           0000  ;       r1 - address of the compiled format (getedit) or 0 (getlist)
                           0000  ;       r2 - no_echo 0=off
                           0000  ;       r3 - no_filter 0=off
                           0000  ;       r4 - address of prompt
                           0000  ;       r5 - purge_type_ahead 0=off
                           0000  ; outputs:
                           0000  ;       r11 - address of the stream block for this get statement
                           0000  ; side effects:
                           0000  ;       ap is preserved
                           0000  ;       r0-r6 are destroyed
                           0000  ;--
                           0000          .enabl  lsb
                           0000
                           0000  pli$getfile_r6::
                           0000  ;
                           0000  ; open file if nec
                           0000  ;
          7E     50    7D  0000          movq    r0,-(sp)                        ;save skip and format
    1E 0C AC     01    E0  0003          bbs     #atr_v_opened,fcb_l_attr(ap),10$ ;if file open, cont
      00000840 8F      DD  0008          pushl   #<atr_m_stream+atr_m_input> ;request stream and input
                 5C    DD  000E          pushl   ap                              ;set fcb
 00000000'GF     02    FB  0010          calls   #2,g^pli$open                   ;open the file
    0A 0C AC     01    E0  0017          bbs     #atr_v_opened,fcb_l_attr(ap),10$ ;if file opened, cont
50    00000000'8F      D0  001C          movl    #pli$_open,r0                   ;set open failure
               0191    31  0023          brw     fail                            ;and fail
                           0026  ;
                           0026  ; check file attributes
                           0026  ;
    0A 0C AC     03    E3  0026  10$:    bbcs    #atr_v_recur,fcb_l_attr(ap),20$ ;if illegal recursion
50    00000000'8F      D0  002B          movl    #pli$_recursio,r0               ;set recursive i/o
               0182    31  0032          brw     fail                            ;and fail
      6D    01AE CC    9E  0035  20$:    movab   fcb_l_condit(ap),(fp)           ;set condition handler address
    0A 0C AC     06    E0  003A          bbs     #atr_v_input,fcb_l_attr(ap),40$ ;if input, cont
50    00000000'8F      D0  003F  30$:    movl    #pli$_notinput,r0               ;set not input file
               016E    31  0046          brw     fail                            ;and fail
    0A 0C AC     0B    E0  0049  40$:    bbs     #atr_v_stream,fcb_l_attr(ap),50$ ;if stream, cont
50    00000000'8F      D0  004E          movl    #pli$_notstream,r0              ;set not stream file
```

```
              015F     31  0055              brw     fail                           ;and fail
                           0058        ;
                           0058        ; allocate buffer if needed
                           0058        ;
           14 AC       D5  0058        50$:    tstl    fcb_l_buf(ap)                  ;buffer already allocated?
              3E       12  005B              bneq    80$                            ;if neq, yes, cont
     03 0C AC      15  E1  005D              bbc     #atr_v_app_comma,fcb_l_attr(ap),60$ ;if append comma
           2A AC       B6  0062              incw    fcb_w_linesize(ap)             ;add 1 to buffer size
        7E 2A AC       3C  0065        60$:    movzwl  fcb_w_linesize(ap),-(sp) ;get size of a line
   0082 CC     6E      B0  0069              movw    (sp),<fcb_b_rab+rab$w_usz>(ap) ;set it in rab
               5E      DD  006E              pushl   sp                             ;push addr of temp
           04 AE       DF  0070              pushal  4(sp)                          ;push addr of size
  00000000'GF  02      FB  0073              calls   #2,g^lib$get_vm                ;get buffer
           0A 50       E8  007A              blbs    r0,70$                         ;if lbs, then cont
  50    00000000'8F    D0  007D              movl    #pli$_novirmem,r0              ;set no virt mem
             0130      31  0084              brw     fail                           ;and fail
               50    8ED0  0087        70$:    popl    r0                             ;get buffer addr
        14 AC  50      D0  008A              movl    r0,fcb_l_buf(ap)               ;store addr of buffer in fcb
        1C AC  50      D0  008E              movl    r0,fcb_l_buf_pt(ap)            ;init buf pointer
        18 AC  50      D0  0092              movl    r0,fcb_l_buf_end(ap)           ;init buf end
      0086 CC  50      D0  0096              movl    r0,<fcb_b_rab+rab$l_ubf>(ap) ;store in rab too.
                           009B        ;
                           009B        ; set locate mode if not app_comma
                           009B        ;
66 AC   00010000 8F    CA  009B        80$:    bicl    #rab$m_loc,<fcb_b_rab+rab$l_rop>(ap) ;clear locate mode
     08 0C AC      15  E1  00A3              bbc     #atr_v_app_comma,fcb_l_attr(ap),90$ ;if not app_comma, cont
66 AC   00010000 8F    C8  00A8              bisl    #rab$m_loc,<fcb_b_rab+rab$l_rop>(ap) ;set locate mode
                           00B0        ;
                           00B0        ;allocate a stream block
                           00B0        ;
          50   8E      7D  00B0        90$:    movq    (sp)+,r0                       ;restore skip and format
               56    8ED0  00B3              popl    r6                             ;save return address
  5E    00000C08 8F    C2  00B6              subl    #str_c_len,sp                  ;alloc space for stream block
               5B  5E  D0  00BD              movl    sp,r11                         ;set address of stream block
   14 AB    0408 CB    9E  00C0              movab   str_l_stack_end(r11),str_l_fld_end(r11) ;set end of field
                           00C6        ;
                           00C6        ; initialize format stack
                           00C6        ;
        08 AB  5D      D0  00C6              movl    fp,str_l_parent(r11)           ;set default parent pointer
        04 AB  51      D0  00CA              movl    r1,str_l_fp(r11)               ;set address of format pointer
               04      13  00CE              beql    95$                            ;if eql, cont
        0C AC  04      CA  00D0              bicl    #atr_m_comma_exp,fcb_l_attr(ap) ;clear comma expected if edit
      0C04 CB  51      D0  00D4        95$:    movl    r1,str_l_stack(r11)            ;copy format pointer to stack
    6B   0C04 CB       9E  00D9              movab   str_l_stack(r11),str_l_sp(r11) ;store format stack pointer
           0C AB       D4  00DE              clrl    str_l_fs(r11)                  ;init status
                           00E1        ;
                           00E1        ; set all options except prompt and skip
                           00E1        ;
        51   66 AC     9E  00E1              movab   <fcb_b_rab+rab$l_rop>(ap),r1 ;get addr of rop
  61    16FFF8FF 8F    CA  00E5              bicl    #^c<rab$m_cco!rab$m_eof! - ;clear unused bits in rop
                           00EC                      rab$m_pmt!rab$m_pta!rab$m_rah! - ;
                           00EC                      rab$m_rne!rab$m_rnf!rab$m_wbh>,(r1) ;
  61   01   18   52    F0  00EC              insv    r2,#rab$v_rne,#1,(r1)          ;set read no echo
  61   01   1B   53    F0  00F1              insv    r3,#rab$v_rnf,#1,(r1)          ;set read no filter
  61   01   1D   55    F0  00F6              insv    r5,#rab$v_pta,#1,(r1)          ;set purge type ahead
                           00FB        ;
                           00FB        ; process skip and prompt options. skips turn into a read with prompt where
```

```
                                 00FB  ; the prompt is a <cr><lf>. if a positive number, n, skips was specified, we
                                 00FB  ; will do n-1 skips before we do the user specified prompt (if any). this re-
                                 00FB  ; quires us to append the users prompt to the <cr><lf> for the last skip. if
                                 00FB  ; no skip was specified, but a prompt was specified, we will use the users
                                 00FB  ; prompt as is. note that prompting always forces a get, so that whatever is
                                 00FB  ; left in the buffer from the last get statement is lost.
                                 00FB  ;
                                 00FB
      18 AB    00000A0D 8F   D0  00FB  100$:   movl    #^x0a0d,str_b_field(r11) ;set to prompt with <cr><lf>
            0096 CC    02    90  0103          movb    #2,<fcb_b_rab+rab$b_psz>(ap) ;set size in rab
         0092 CC    18 AB    9E  0108          movab   str_b_field(r11),<fcb_b_rab+ - ;set prompt addr
                                 010E                  rab$l_pbf>(ap)                 ;in rab
      66 AC    40000000 8F   C8  010E          bisl    #rab$m_pmt,<fcb_b_rab+rab$l_rop>(ap) ;set to prompt in rab
                    52    50 D0  0116          movl    r0,r2                          ;copy skip addr
                          16 13  0119          beql    115$                           ;if eql, then no skip
                    52    62 32  011B          cvtwl   (r2),r2                        ;get number to skip
                          0A 14  011E          bgtr    110$                           ;if gtr, cont
          50   00000000'8F   D0  0120          movl    #pli$_invskip,r0               ;set invalid skip
                       008D  31  0127          brw     fail                           ;and fail
           02 0C AC    19    E1  012A  110$:   bbc     #atr_v_virgin,fcb_l_attr(ap),115$ ;if virgin
                          52 D6  012F          incl    r2                             ;do an extra skip to get first record
      0C AC    00040000 8F   CA  0131  115$:   bicl    #atr_m_currec,fcb_l_attr(ap) ;clear currec in fcb to do skips
                          54 D5  0139          tstl    r4                             ;prompt specified?
                          55 13  013B          beql    160$                           ;if eql, then not there, cont
                    51    64 3C  013D          movzwl  (r4),r1                        ;get length
                          50 13  0140          beql    160$                           ;if eql, then ignore it
         000000FD 8F    51   D1  0142          cmpl    r1,#253                        ;is it too big?
                          0A 15  0149          bleq    120$                           ;if leq, no, cont
          50   00000000'8F   D0  014B          movl    #pli$_promptobig,r0            ;set prompt too big
                       0062  31  0152          brw     fail                           ;and fail
                          52 DD  0155  120$:   pushl   r2                             ;save number of skips
               10 AB    51   D0  0157          movl    r1,str_l_fld_pt(r11)           ;save size of prompt
          1A AB    64    84  28  015B          movc3   (r4)+,(r4),str_b_field+2(r11) ;copy prompt to field
                        52 8ED0  0160          popl    r2                             ;restore number of skips
                          19 14  0163          bgtr    140$                           ;if gtr, do n-1 with our prompt
         0092 CC    1A AB    9E  0165          movab   str_b_field+2(r11),<fcb_b_rab+ - ;no skips, so set his prompt
                                 016B                  rab$l_pbf>(ap)                 ;addr in rab
         0096 CC    10 AB    90  016B          movb    str_l_fld_pt(r11),<fcb_b_rab+ - ;set size of users prompt
                                 0171                  rab$b_psz>(ap)                 ;in  rab
                    14       11  0171          brb     150$                           ;do the prompt
           33 0C AC    00    E0  0173  130$:   bbs     #atr_v_eof,fcb_l_attr(ap),170$ ;if eof, signal endfile
             00000000'GF     16  0178          jsb     g^pli$$get_rec                 ;skip a record
                   F2 52     F5  017E  140$:   sobgtr  r2,130$                        ;if skips left, do them
         0096 CC    10 AB    80  0181          addb    str_l_fld_pt(r11),<fcb_b_rab+ - ;add size of users prompt
                                 0187                  rab$b_psz>(ap)                 ;to prompt size in rab
           1F 0C AC    00    E0  0187  150$:   bbs     #atr_v_eof,fcb_l_attr(ap),170$ ;if eof, signal endfile
             00000000'GF     16  018C          jsb     g^pli$$get_rec                 ;skip a record
                   F2 52     F4  0192  160$:   sobgeq  r2,150$                        ;process skips
      66 AC    40000000 8F   CA  0195          bicl    #rab$m_pmt,<fcb_b_rab+rab$l_rop>(ap) ;clear prompt in rab
      0C AC    00040000 8F   C8  019D          bisl    #atr_m_currec,fcb_l_attr(ap) ;set currec to turn off skipping
               0C AC    08   CA  01A5          bicl    #atr_m_recur,fcb_l_attr(ap) ;clr recursive flag
                                 01A9  ;
                                 01A9  ; 'return' jump back to main line code
                                 01A9  ;
                    66       17  01A9          jmp     (r6)                           ;return to user
                                 01AB
                    5C       DD  01AB  170$:   pushl   ap                             ;set fcb addr
```

```
              00   DD  01AD   245          pushl   #0                       ;set no error code
       00000000'8F DD  01AF   246          pushl   #pli$_endfile            ;set endfile condition
              0A   11  01B5   247          brb     180$                     ;signal the condition
                       01B7   248 ;
                       01B7   249 ;failure routine
                       01B7   250 ;
                       01B7   251
              5C   DD  01B7   252 fail:    pushl   ap                       ;set fcb addr
              50   DD  01B9   253          pushl   r0                       ;set error code
       00000000'8F DD  01BB   254          pushl   #pli$_error              ;set error condition
              6D   D4  01C1   255 180$:    clrl    (fp)                     ;remove the handler in this frame
       0C AC  08   AA  01C3   256          bicw    #1@atr_v_recur,fcb_l_attr(ap);reset
    00000000'GF   03   FB  01C7   257      calls   #3,g^pli$io_error        ;signal the error
              04       01CE   258          ret                              ;return
                       01CF   259
                       01CF   260          .dsabl  lsb
                       01CF   261          .end
```

```
ATR_M_COMMA_EXP             = 00000004             PLI$_RECURSIO                 ********  X   02
ATR_M_CURREC                = 00040000             RAB$B_PSZ                   = 00000034
ATR_M_INPUT                 = 00000040             RAB$L_PBF                   = 00000030
ATR_M_RECUR                 = 00000008             RAB$L_ROP                   = 00000004
ATR_M_STREAM                = 00000800             RAB$L_UBF                   = 00000024
ATR_V_APP_COMMA             = 00000015             RAB$M_CCO                   = 80000000
ATR_V_EOF                   = 00000000             RAB$M_EOF                   = 00000100
ATR_V_INPUT                 = 00000006             RAB$M_LOC                   = 00010000
ATR_V_OPENED                = 00000001             RAB$M_PMT                   = 40000000
ATR_V_RECUR                 = 00000003             RAB$M_PTA                   = 20000000
ATR_V_STREAM                = 0000000B             RAB$M_RAH                   = 00000200
ATR_V_VIRGIN                = 00000019             RAB$M_RNE                   = 01000000
FAIL                          000001B7 R     02    RAB$M_RNF                   = 08000000
FCB_B_ENVIR                   000001C2             RAB$M_WBH                   = 00000400
FCB_B_ESA                     0000012E             RAB$V_PTA                   = 0000001D
FCB_B_EXTRA                   0000003D             RAB$V_RNE                   = 00000018
FCB_B_FAB                     000000A6             RAB$V_RNF                   = 0000001B
FCB_B_IDENT                   00000040             RAB$W_USZ                   = 00000020
FCB_B_IDENT_NAM               00000042             SIZ...                      = 00000001
FCB_B_NAM                     000000F6             STK_L_AP                      00000008
FCB_B_NUMKCBS                 0000003C             STK_L_ARG_LIST                FFFFFFF8
FCB_B_RAB                     00000062             STK_L_CND_HND                 0000000C
FCB_C_LEN                     000001C2             STK_L_CND_LST                 FFFFFFF4
FCB_C_STRLEN                  00000034             STK_L_DISPLAY                 FFFFFFFC
FCB_L_ATTR                    0000000C             STK_L_FP                      0000000C
FCB_L_BUF                     00000014             STK_L_PC                      00000010
FCB_L_BUF_END                 00000018             STK_L_PSL                     00000004
FCB_L_BUF_PT                  0000001C             STK_L_REGS                    00000014
FCB_L_CNDADDR                 000001B2             STR_B_FIELD                   00000018
FCB_L_CONDIT                  000001AE             STR_C_LEN                     00000C08
FCB_L_DTTR                    00000010             STR_L_FLD_END                 00000014
FCB_L_ERROR                   00000008             STR_L_FLD_PT                  00000010
FCB_L_KCB                     00000038             STR_L_FP                      00000004
FCB_L_NEXT                    00000000             STR_L_FS                      0000000C
FCB_L_PREVIOUS                00000004             STR_L_PARENT                  00000008
FCB_L_PRN                     00000034             STR_L_SP                      00000000
FCB_Q_RFA                     00000020             STR_L_STACK                   00000C04
FCB_W_COLUMN                  0000002E             STR_L_STACK_END               00000408
FCB_W_IDENT_LEN               00000040
FCB_W_LINE                    00000030
FCB_W_LINESIZE                0000002A
FCB_W_PAGE                    00000032
FCB_W_PAGESIZE                0000002C
FCB_W_REVISION                00000028
LIB$GET_VM                    ********  X   02
PLI$$GET_REC                  ********  X   02
PLI$GETFILE_R6                00000000 RG    02
PLI$IO_ERROR                  ********  X   02
PLI$OPEN                      ********  X   02
PLI$_ENDFILE                  ********  X   02
PLI$_ERROR                    ********  X   02
PLI$_INVSKIP                  ********  X   02
PLI$_NOTINPUT                 ********  X   02
PLI$_NOTSTREAM                ********  X   02
PLI$_NOVIRMEM                 ********  X   02
PLI$_OPEN                     ********  X   02
PLI$_PROMPTOBIG               ********  X   02
```

```
                                            +----------------+
                                            ! Psect synopsis !
                                            +----------------+

PSECT name                      Allocation          PSECT No.  Attributes
----------                      ----------          ---------  ----------
.  ABS  .                       00000000  (     0.)  00 (  0.)  NOPIC   USR   CON   ABS   LCL NOSHR NOEXE NORD   NOWRT NOVEC BYTE
$ABS$                           FFFFFFFC  (     0.)  01 (  1.)  NOPIC   USR   CON   ABS   LCL NOSHR   EXE   RD     WRT NOVEC BYTE
_PLI$CODE                       000001CF  (   463.)  02 (  2.)    PIC   USR   CON   REL   LCL   SHR   EXE   RD   NOWRT NOVEC LONG

                                         +------------------------+
                                         ! Performance indicators !
                                         +------------------------+

Phase                    Page faults    CPU Time       Elapsed Time
-----                    -----------    --------       ------------
Initialization                     9    00:00:00.04    00:00:00.82
Command processing                67    00:00:00.52    00:00:03.00
Pass 1                           214    00:00:07.26    00:00:21.15
Symbol table sort                  0    00:00:00.82    00:00:02.14
Pass 2                            57    00:00:01.36    00:00:04.71
Symbol table output               11    00:00:00.09    00:00:00.11
Psect synopsis output              2    00:00:00.03    00:00:00.03
Cross-reference output             0    00:00:00.00    00:00:00.00
Assembler run totals             360    00:00:10.13    00:00:31.96

The working set limit was 1050 pages.
39656 bytes (78 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 712 non-local and 20 local symbols.
261 source lines were read in Pass 1, producing 11 object records in Pass 2.
17 pages of virtual memory were used to define 15 macros.

                                        +--------------------------+
                                        ! Macro library statistics !
                                        +--------------------------+

Macro library name                        Macros defined
------------------                        --------------
_$255$DUA28:[PLIRTL.OBJ]PLIRTMAC.MLB;1                 5
_$255$DUA28:[SYSLIB]STARLET.MLB;2                      7
TOTALS (all libraries)                                12

739 GETS were required to define 12 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=TRACEBACK/LIS=LIS$:PLIGETFIL/OBJ=OBJ$:PLIGETFIL MSRC$:PLIGETFIL/UPDATE=(ENH$:PLIGETFIL)+LIB$:PLIRTM
```

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VAX/VMS V4.0

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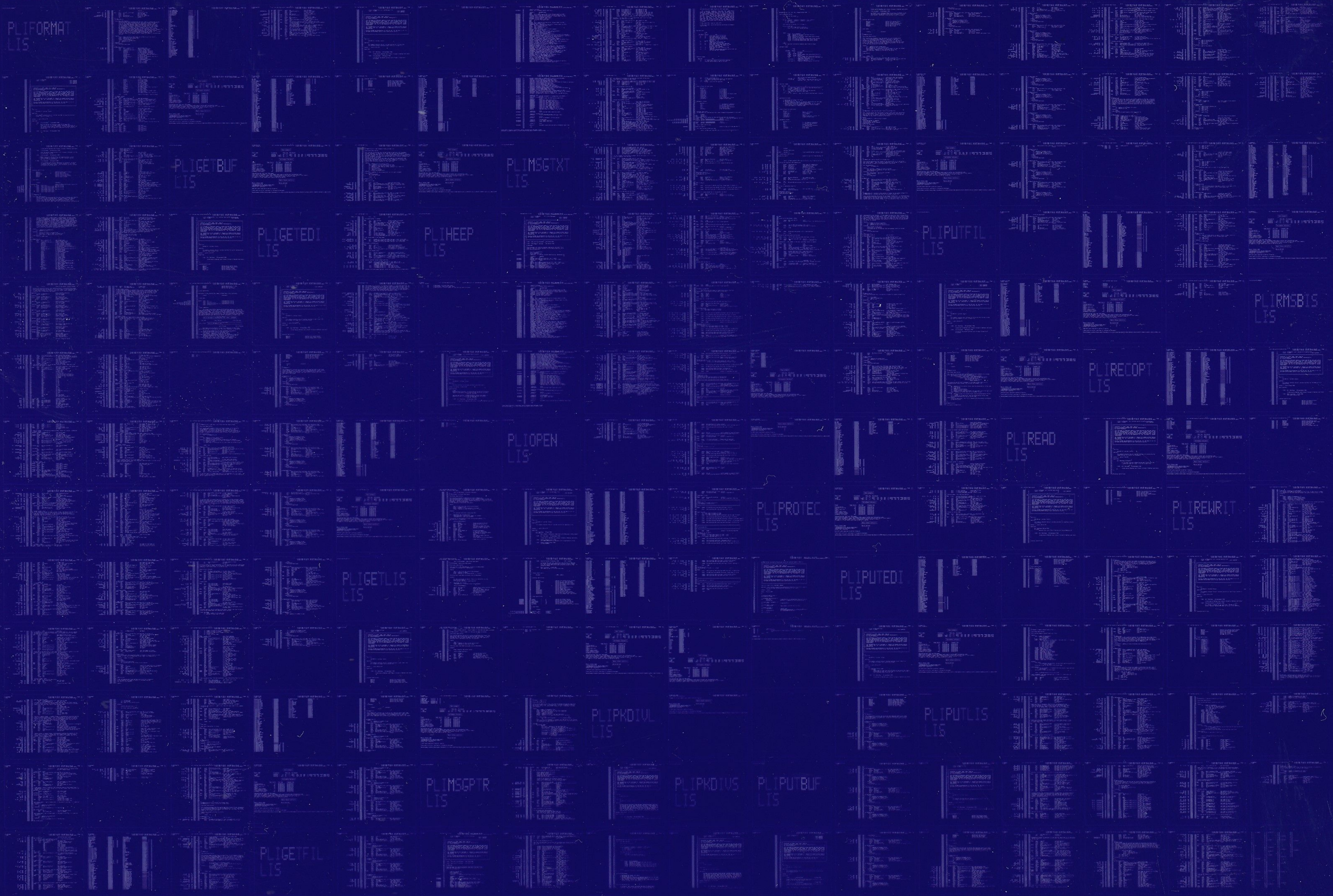

PLIFORMAT
LIS

PLIGETBUF
LIS

PLIMSGTXT
LIS

PLIGETEDI
LIS

PLIHEEP
LIS

PLIPUTFIL
LIS

PLIRMSBIS
LIS

PLIRECOPT
LIS

PLIOPEN
LIS

PLIREAD
LIS

PLIPROTEC
LIS

PLIREWRIT
LIS

PLIGETLIS
LIS

PLIPUTEDI
LIS

PLIPKDIVL
LIS

PLIPUTLIS
LIS

PLIMSGPTR
LIS

PLIPKDIVS
LIS

PLIPUTBUF
LIS

PLIGETFIL
LIS